



Product Evaluation

SK54 | 0917

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: SK-54

Effective Date: September 1, 2017

Re-evaluation Date: September 2021

Product Name: VELUX® Commercial Skylights, Dynamic Domes, Impact Resistant

Manufacturer: VELUX America, LLC
450 Old Brickyard Road
P.O. Box 5001
Greenwood, SC 29648-5001
(864) 941-4828

General Description:

System	Description	Label Rating	Design Pressure Rating
1	Model CD2 or CE2 **** 2P1C2, 2P1C1, or 2P2C1; Dynamic Polycarbonate Domes, 5' by 8', 0.150" Smooth over 0.118" Prismatic, Curb Mounted Skylight	SKP-PG30 Size Tested: 66 x 102 (DP = +30/-40 psf) Missile Level D Cyclic Pressure: +65 /-65 psf	+30 / -40 psf

Component Dimensions:

System	Overall Size	Daylight Opening Size
1	66" x 102"	60" x 96"

Product Identification (Certification Agency Label on Skylight):

System		
1	Certification Agency	WDMA
	Manufacturer's Name or Code Name	VELUX® Dynamic Dome
	Product Name	Model CD2 or CE2 **** 2P1C2, 2P1C1, or 2P2C1; Dynamic Polycarbonate Domes, 5' by 8', 0.150" Smooth over 0.118" Prismatic
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-11 ASTM E 1886-05; ASTM E 1996-06 Missile Level D

Product Identification (Manufacturer): A permanent identification label is affixed to the product. The permanent label includes the manufacturer's name and the product number.

Impact Resistance:

System	Impact Resistant	Requirement
1	Yes	These products satisfy TDI's criteria for protection from windborne debris in the Inland I and Seaward zone . Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies.

Limitations:

System	Model ID	Standard Size
1	CD2 or CE2 **** 2P1C1, 2P1C2, or 2P2C1	2448, 2496, 3636, 3660, 3672, 3696, 4848, 4860, 4872, 4896, 6060, 6072, and 6096

Roof Slope:

System 1: Install the skylights on roofs with slopes between 0 degrees and 60 degrees.

Acceptance of Smaller Assemblies: Identically built assemblies with dome and tunnel dimensions equal to or smaller than those specified in this evaluation report are acceptable within the limitations specified in this evaluation report.

Installation:

General: Install the skylights in accordance with the manufacturer's installation instructions and this evaluation report. The manufacturer ship detailed installation instructions in the cartons, and may have additional drawings available.

The following installation requirements apply to all skylights:

1. Follow manufacturer's installation instructions unless otherwise specified by this product evaluation report.
2. Cut roof rafters as necessary to facilitate skylight installation. In such cases, a TDI appointed engineer as a qualified inspector must design and certify the roof framing modifications as well as the product installation.

Installation: The skylights must be secured to a wood curb. The wood curb must be minimum 2x Spruce-Pine-Fir dimension lumber. The wood curb and the attachment of the wood curb to the roof framing must be designed to resist the design pressure of the skylight as specified in this evaluation report. The wood curb and the attachment of the wood curb to the structure must be designed by a TDI appointed engineer licensed to practice in the State of Texas.

The skylight must be secured to the wood curb with minimum No. 8 x 1-3/4" pan head stainless steel screws. The fasteners are driven horizontally through pre-punched holes in the bottom edge of the aluminum skylight frame into the wood curb. The fasteners must be spaced approximately 8" from each corner and approximately 12" on center along the perimeter of the skylight utilizing pre-drilled hole locations. The fasteners must be long enough to penetrate a minimum of 1-1/2" into the wood curb

Note: Use of different curb materials on non-wood roofs with fasteners of equivalent anchorage capacities are permitted. A TDI appointed engineer must specify design requirements and inspect the installation. Spacing of fasteners must not exceed the spacing specified in this evaluation report.

Note: Keep the manufacturer's installation instructions on the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.